

3.1 Movement of Substance Across the Plasma Membrane

Structure of the Plasma Membrane

1. S.J. Singer and G. L. Nicolson introduced the fluid-mosaic model of plasma membrane.
 - Proteins are dispersed throughout the phospholipid bilayer.
 - Proteins float about in phospholipid bilayer to form a mosaic pattern that always changes.
 - Plasma membrane present in a flexible, non-static and dynamic state.
2. Plasma membrane composed mainly of phospholipid bilayer and proteins.

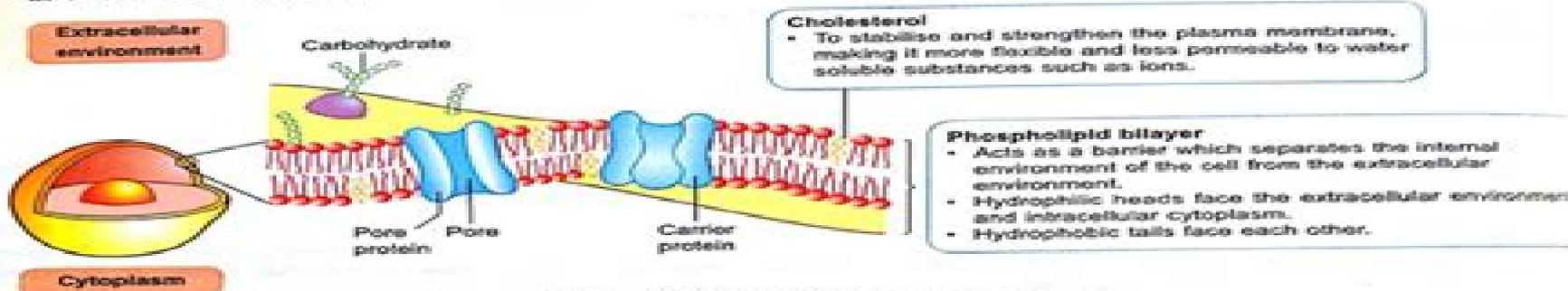


Diagram 3.1 Structure of plasma membrane

Characteristics of Plasma Membrane

1. Selectively permeable
 - It only allows certain substances to pass through but not others
2. Dynamic or flexible

Table 3.1 Components of plasma membrane

Components of plasma membrane	Phospholipid bilayer	Transport proteins	
		Carrier protein	Pore protein
Characteristics	A triglyceride	A protein	A protein
Substances that move across the plasma membrane	<ul style="list-style-type: none"> • Lipid soluble molecules • Non-polar molecules • Small molecules 	<ul style="list-style-type: none"> • Large molecules • Water soluble molecules 	<ul style="list-style-type: none"> • Small molecules • Water soluble molecules or polar molecules

Functions of plasma membrane

1. To control the substances that are entering or leaving the cell
2. To maintain a constant internal environment (homeostasis) of the cell
3. For gaseous exchange
4. To transport nutrients into the cell
5. To excrete waste products out from the cell

Express Tip



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